

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
21 June 2001 (21.06.2001)

PCT

(10) International Publication Number
WO 01/43980 A1

(51) International Patent Classification⁷: B42F 3/00, 13/04

(81) Designated State (*national*): US.

(21) International Application Number: PCT/PL00/00083

(84) Designated States (*regional*): European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR).

(22) International Filing Date:
21 November 2000 (21.11.2000)

(25) Filing Language: English

Published:

(26) Publication Language: English

— With international search report.

— Before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments.

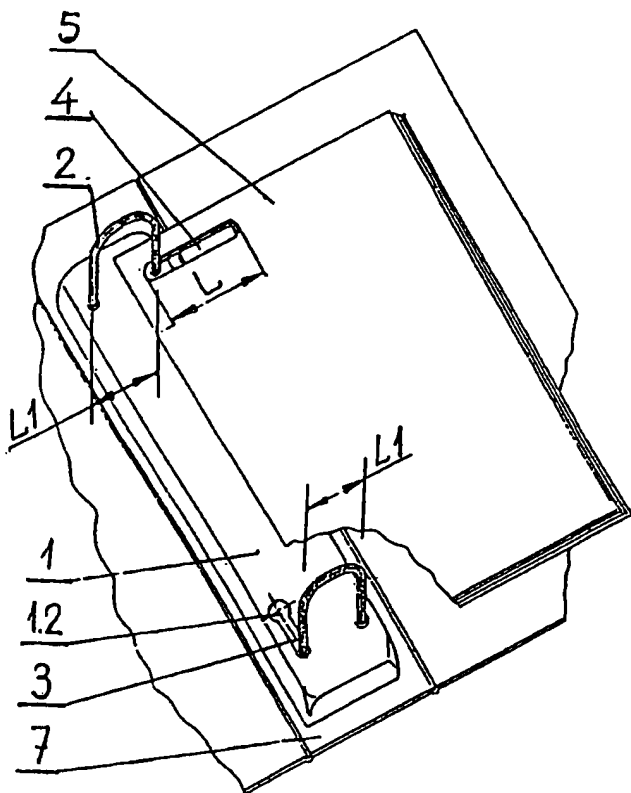
(30) Priority Data:
P 336746 23 November 1999 (23.11.1999) PL

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: FILE



(57) Abstract: The file binder organiser consists of a known stiff or flexible cover having a hinge-opening upper part and identical or similar bottom part, which are joined with each other by means of the centre narrow stiff backbone part (7). On this part from the inside there is firmly fitted a holding mechanism for the pile of sheets (5), perforated on the longer edge, containing at least two opening ring clips (2, 3). According to the invention it is characteristic that the holding mechanism consists of the elongated, principally flat, boat-shaped, bottom-opened, particularly square-shaped stiff body (1) in which the single top bipartite stiff ring clip (2) is fitted in the upper part and the single bottom flexible ring clip is fitted in the bottom part (3). Both these items when "closed" are suitably fastened in the longitudinal upper slot opening (4) of the pile of sheet (5) and in the lower longitudinal T-shaped slot opening (6) of the pile of sheets (5). The axis of the upper slot opening (4) passes perpendicular to the backbone part (7) of the cover. The axis of the upper arm of the bottom slot opening (6) passes parallel to the axis of the backbone part (7) of the cover, whilst the axis of the centre arm of the slot opening (6) passes perpendicular to the axis of the backbone part (7) of the cover. The bottom flexible ring clip (3) constitutes a flexible bar terminated on the one passive side with plate thickening (3.1.) seated in cylindrical opening (1.1.) of stiff body (1) and on the other active side terminated with spherical thickening (3.2), loosely and withdrawably seated in the longitudinal slot opening (1.2) of the stiff

body, terminated with cylindrical extension with a diameter greater than that of spherical thickening (3.2).

FILE

The subject of this invention is the file binder organiser provided for personal use and for using in various office work. The invention relates to the construction of office equipment and stationery.

The existing known and widely used file binders and file binders organisers which usually consist of a stiff or flexible cover having a hinge-opening upper part and identical or similar bottom part are joined with each other by means of a centre narrow stiff backbone part. On this part from the inside there is a firmly fitted holding mechanism for edge-perforated sheets, containing at least two opening ring clips.

The file binders having the construction as described above, despite they are produced on a large scale and widely used have at least one disadvantage, namely, their discomfort consist in inconvenience of free writing on the sheet of paper in the pile of sheets inserted in the organiser on its left-hand side. The relatively hard and high bottom stiff ring of the bipartite ring clip prevents the user from convenient placing of a hand while writing.

The invention describes the design solution of a new type file binder organiser, free from the above-described disadvantage encountered in the existing solutions and improving the convenience while using it.

The file binder organiser consisting of a known rigid or flexible cover having an hinge-opening top cover and identical or similar bottom part which are integrally joined with each other by means of a centre narrow stiff backbone part, on which from the inside there is a firmly fitted a known holding mechanism for a pile of sheets perforated on the longer edge, having at least two known opening ring clips according to this invention is characteristic that the holding mechanism made of metal or synthetic plastic consists of an elongated and principally flat, boat-shaped, bottom-opened, particularly square-shaped stiff body in which an top bipartite single stiff ring

clip is fitted in the upper part and a bottom single flexible ring clip is fitted in the bottom part. Both the ring clips when closed are fastened suitably in the longitudinal slot-shaped upper opening of pile of sheets and in the longitudinal T-shaped bottom slot opening of the pile of sheets. The axis of the upper slot opening passes perpendicular to the axis of the backbone part of the cover. The axis of the upper arm of bottom slot opening passes parallel to the axis of cover backbone part and the centre arm axis of the said slot opening passes perpendicular to the backbone part of the cover. The above-mentioned bottom flexible ring clip constitutes a flexible bar with a plate thickening at the end on one passive side, fitted in a cylindrical opening of the stiff body and with a spherical thickening at the end on the other active side, loosely and withdrawably fitted in the longitudinal slot opening of the stiff body, terminated with a cylindrical input extension having a diameter bigger than that of the spherical thickening. The symmetry axis of the longitudinal slot opening of the body is parallel or is situated at acute or obtuse angles to the symmetry axis of the backbone part of the cover. The length of the upper slot opening corresponds to the centre arm length of bottom slot opening of pile of sheets and is bigger or at most equal to the distance of the axes of vertical arms of the top bipartite stiff ring clip or is lesser or at most equal to the distance of vertical arms of the top bipartite stiff ring clip.

In some characteristic embodiments of the file binder organiser according to the invention the upper arm length of the bottom slot opening in the pile of sheets is bigger, lesser or at most equal to the distance of vertical arms axes of the top bipartite stiff ring clip, whilst in other embodiments the upper arm of the bottom slot opening in the pile of sheets is obliquely extended upwards (looking from the top) at obtuse angle to the sheet edge up to the point of contact with the said edge, and thus creates an open duct to insert there the arm of the bottom flexible ring clip. Alternatively it is also an essential element that the said upper arm of the slot opening in the pile of sheets is obliquely extended upwards (looking from the top) at obtuse angle to the sheet edge up to the point of coming into contact with the said edge, and thus forms an oblique duct which terminates near the sheet edge, and the sheet between the end of the oblique duct and the sheet edge is cut so that it is possible to insert the bottom flexible ring clip without unfastening it, or at its upper or lower top the arm has

a cut passing between the opening and the sheet edge so that it is possible to insert the arm of the bottom flexible ring clip without unfastening it. The distance of the axes of vertical arms of the top bipartite stiff ring clip corresponds to the distance of the axes of vertical arms of the bottom flexible ring clip when in the closed position. It is essential that the file binder according to the needs has two or more than two identical top bipartite stiff ring clips located in the upper part of the body, and similarly it has two or more than two identical bottom flexible ring clips located in the bottom part of the body. In other characteristic embodiments the file binder organiser according to the invention has one or more than one identical flexible ring clips located both in the bottom part of the body and in the upper part of the body, or it has more than two identical flexible ring clips located in the lower, centre and upper part of the body. According to the invention it is essential that the stiff holding mechanism body which is open from the bottom, is alternatively attached to the bottom cover in the close vicinity of the stiff backbone part, that the bottom flexible ring clip has a form of a spring, or that is formed by joining or plaiting from numerous flexible fibres, or that the bottom flexible ring clip has alternatively a form of a flexible tube or a form of a flexible bar made particularly of synthetic plastics and on the passive side is joined with the stiff body. In some other characteristic embodiments of the file binder organiser it is essential that the active side of the bottom flexible ring clip has a flanged cut-out working in conjunction with the body slot opening which is suitably shaped to its dimensions, that the cross-section of the bottom flexible ring clip and the cross-section of the top bipartite stiff ring clip have a shape of a circle or have an oval shape, with its longer axis situated parallel or perpendicular to the stiff backbone part axis, and in another embodiment the cross-section of the bottom flexible ring clip has an oval shape, with its longer axis situated particularly perpendicular to the stiff backbone part axis, whilst the elongated, principally flat, boat-shaped, bottom-opened, particularly square-shaped stiff body of the holding mechanism has a bipartite design and each its part is attached in the top and the bottom part of the stiff backbone part respectively, and the cross-section dimensions of the top bipartite stiff ring clip corresponds to the cross-section dimensions of the bottom flexible ring clip, or are different from them.

Furthermore, it is essential that in some embodiments the bottom flexible ring clip is provided with a latch linking both its parts, located in the mid-length or near the mid-length, particularly in the uppermost point of its arched bend, that the bottom flexible ring clip is replaceable and its different makes have a variable total length, that the top bipartite stiff ring clip and the bottom flexible ring clip are located, each separately, in separate stiff body, and each of these bodies is fitted in an individual latch type pocket attachment, arranged in pairs on the backbone part and on the bottom part of the cover respectively.

In other embodiments the bottom flexible ring clip is a flexible bar of symmetric design terminated both on the passive side and active side with a spherical thickening, working withdrawably and accordingly in conjunction with two identical longitudinal slot openings of the stiff body. Alternatively these openings are arranged parallel or perpendicular to the axis of stiff backbone part of the cover, or at a suitable angle to the axis of the backbone cover part.

The backbone part width is equal to or less than the distance of the axis of the top bipartite stiff ring clip arms, and the same distance of the bottom flexible ring clip arms, which when the file binder is in the closed position are inserted into longitudinal, identical symmetrical openings made in the upper or bottom cover or made in one of these covers only.

Characteristically in some embodiments of the file binder organiser the top cover is provided with a fold parallel to the backbone part and passing near the backbone part as well as is provided with latches attached to this part in the number corresponding to the number of top and bottom clips, each of these latches in the "top cover open" position being inserted into the left-hand arm of its corresponding ring clip, or also that the top cover is provided with a fold parallel to the backbone part and passing in its vicinity and has two identical springy holders attached to the said fold, inserted into the left arms of the top bipartite stiff ring clip and bottom flexible ring clip respectively in the situation when they are in the "closed" positions.

The left and right arms of the top bipartite stiff ring clip and bottom flexible ring clip respectively in the situation when they are in the "closed" position, in some

characteristic embodiments are inserted into adequate openings on the narrow side walls of the rectangular stiff body, whilst the top cover is provided with a fold parallel to the backbone part and passing in its vicinity, and has a triple or quadruple fold on its outside longer edge so as to allow formation of a casually shaped triangular, trapezoidal or rectangular section support with a height corresponding approximately to the height of the fold, and to allow such formation of the cover in the "file binder closed" position that the last of the triple or quadruple fold overlaps the rear file binder cover with which in such a way creates a bur-stuck lock.

It is essential that in a simpler characteristic embodiment of the file binder organiser the top cover is provided with two flexible moving supports, immediately shaped, to a height corresponding approximately to the height of the fold formed parallel to the backbone part and passing in its vicinity, and that in such embodiments the bottom slot opening of the pile of sheets is elongated upwards, and its body constitutes a part of the cover backbone and is formed in its mass.

In other characteristic embodiments of the file binder organiser it is essential that the top bipartite stiff ring clip and the bottom flexible ring clip are attached directly to the rear cover of the file binder or to the file binder backbone.

In some embodiments it is essential that the active arm of the bottom flexible ring clip has a spherical flexible thickening that is resiliently pushed through a round opening in the body, and the passive arm of the said ring clip is firmly and inseparably fastened to the body, or that the bottom flexible ring clip is separably fastened to the body by thread screwing, or also that both the arms of the bottom flexible ring clip are swinging-fastened to the body on swivel pivots or are hinged.

The file binder organiser according to the invention in another embodiment is characterised by the fact that the stiff body of the bottom flexible ring clip (in the make where the top bipartite stiff ring clip and the bottom flexible ring clip are arranged, each separately, in separate stiff body) consists of two parts so that both the passive side and the active side of the bottom flexible ring clip are located on separate bodies fastened close to each other, parallel to the axis of the cover backbone part.

According to the invention in other characteristic embodiments of the file binder organiser it is essential that the active arm of the bottom flexible ring clip has at the end a non-flexible spherical thickening which in the "ring clip closed" position is pushed into a spherical-cup shaped elastic bed located under the circular opening in the body, or also that the active arm of the bottom flexible clip ring in the "clip ring closed" position is directly pushed with its suitably shaped non-flexible end into an elastic element protruding from the upper flat part of the body or also into such elastic element fastened to the side wall of the body at an angle adequate to the said wall.

According to the invention in another embodiment the file binder organiser is characteristic in it that the slot opening of the body is extended at suitable angle to the side edge of the body up to the point of coming into contact with the said edge and thus forms an open duct to insert in it the arm of the bottom flexible ring clip.

According to the invention, in the file finder organiser owing to the use of a holding mechanism consisting of an elongated body in which the top single bipartite stiff ring clip is fitted in the upper part and the bottom single flexible ring clip is fitted in the bottom part, in the "closed" position, fastened suitably in the longitudinal upper slot opening (with axis passing perpendicular to the axis of the cover backbone part) of the pile of sheets and in the longitudinal T-shaped bottom slot opening of the pile of sheet, owing to providing the upper file binder cover with supports that can be bent upwards and downwards, and owing to the use of a system of flexible locks and alternative securing arrangements for the bottom flexible ring clips it turned out that it is possible to implement the file binder which is very convenient in use and can be made using simple and cheap manufacturing methods. Typical file binders are provided with conventional stiff ring clips both in the upper part and bottom part, therefore they are to some degree inconvenient in use, i.e. the bottom stiff ring clip prevents the user from convenient placing of a writing hand while writing in the case when it is on the left-hand side of the ring clip. The use of a bottom flexible ring clip in the design solution according to the invention fully eliminates the said inconvenience because the ring clip is bent (even under the minimum hand pressure) to the horizontal position according to the needs either upwards or downwards and at

that time the ring holder is not an obstacle. Similarly, in traditional file binders organisers it is also inconvenient to make notes on a sheet of paper on the left side in case the sheet is used at the beginning of the pile of sheets. At that time, it is natural that a writing hand has to rest on other sheets of the pile on the right-hand side and this is inconvenient. This inconvenience is eliminated in the file binder according to the invention model owing to the use of flexible fastenable top cover supports formed by a writing person to a height suitable for him/her at the moment.

The invention is described in detail on the example of its model and is shown in particular figures, thus, Fig. 1 shows the top view of the file binder organiser in the open position on the first sheet of the pile of sheets with the sheet holding mechanism fastened to the cover backbone part, Fig. 2 shows the bottom view of the file binder from Fig. 1 in the open position on any sheet from the middle of a pile, Fig. 3 shows the top view of other file binder organiser embodiment in the open position on any sheet from the middle of a pile in the version with a double top stiff ring clip and single bottom flexible ring clip, with a sheet holding mechanism fastened on the cover backbone part, Fig. 4 shows the top view of other file binder organiser embodiment in the open position on any sheet from the middle of a pile in the version with a double top stiff ring clip and double bottom flexible ring clip, with a sheet holding mechanism fastened on the cover backbone part, Fig. 5 shows the bottom view of the file binder when open on any sheet from the middle of a pile in the version with the sheet holding mechanism fastened on the bottom cover, Fig. 6 – detail showing the manufacture of the bottom flexible ring clip when fastened onto the pile of sheets, Fig. 7 shows the perspective view of the file binder organiser from Fig. 1, Fig. 8 shows the perspective drawing of the bottom flexible ring clip when fastened without a pile of sheets and partly bent downwards when pressed by a writing person, Fig. 9 shows the bottom view of the bottom flexible ring clip when open, with inserted sheets thereon, Fig. 10 shows the perspective view of other version of the bottom flexible ring clip when fastened, without a pile of sheets, the make with oval cross-section, Fig. 11 - side view of the detail showing the manufacture of other version of the bottom flexible ring clip end, Fig. 12 shows the holder opening in the body with cross-section in A-A plane of

the bottom flexible ring clip in the oval version from Fig. 10, Fig. 13 – cross-section in A-A plane of the bottom flexible ring clip in the oval version from Fig. 10, Fig. 14 shows the perspective bottom view of a fragment of the file binder organiser free from the pile of sheets when closed, the make with the backbone having a width less or equal to the width of the top stiff ring clip and bottom flexible ring clip, Fig. 15 shows the perspective bottom view of a fragment of the file binder organiser free from the pile of sheets when open, the make from Fig. 14, Fig. 16 shows the perspective bottom view of a fragment of the file binder organiser free from the pile of sheets when open, the make with the bottom flexible ring clip fastened on the side of the mechanism body, Fig. 17 shows the top view of the file binder organiser free from the pile of sheets when open, the make with double fastening on the bottom cover and on the backbone of double bipartite mechanism, Fig. 18 shows the view of a sheet from the pile with different formation of the bottom shaped opening for the bottom flexible ring clip, Fig. 19 shows the bottom view of a fragment of the file binder organiser, the make provided with a mechanism with additional locking of the front cover remaining in the bend for writing on the left side of the pile of sheet, Fig. 20 shows the perspective bottom view of a fragment of the file binder organiser, free from the pile of sheets from Fig. 19, the make with a broken integral support of the front cover, Fig. 21 shows the perspective bottom view of a fragment of the file binder organiser free from the pile of sheets, the make with changeable position for fastening the top bipartite stiff ring clip and the bottom flexible ring clip and Fig. 22 shows the bottom view of the file binder when open, the make with a springy support mechanism of the front cover for writing on the left side of the sheets of the pile.

As shown in Figure the file binder organiser consists of the known stiff or flexible cover having a hinge-opening upper part and identical or similar bottom part, integrally joined with each other by means of the centre narrow stiff backbone part 7; on this part from the inside there is firmly fitted a holding mechanism for pile of sheets 5, perforated on the edge part on the longer edge, containing at least two opening ring clips 2, 3. According to the invention the holding mechanism made of metal or

synthetic plastics consists of an elongated, principally flat, boat-shaped, bottom-opened, particularly square-shaped stiff body 1 in which single top bipartite stiff ring clip 2 is fitted in the upper part and single bottom flexible ring clip is fitted in the bottom part 3. Both these items when "closed" are suitably fastened in the longitudinal upper slot opening 4 of the pile of sheets 5 and in the bottom longitudinal T-shaped slot opening 6 of the pile of sheets 5. The axis of an upper slot opening 4 passes perpendicular to backbone part 7 of the cover. The axis of the upper arm of the bottom slot opening 6 passes parallel to the axis of the backbone part 7 of the cover, whilst the axis of the centre arm of the slot opening 6 passes perpendicular to the axis of the backbone part 7 of the cover. The bottom flexible ring clip 3 constitutes a flexible bar terminated on one passive side with plate thickening 3.1 seated in the cylindrical opening 1.1 of the stiff body and on the other active side terminated with the spherical thickening 3.2, loosely and withdrawably seated in the longitudinal slot opening 1.2 of the stiff body, terminated with a cylindrical extension with a diameter greater than that of spherical thickening 3.2.

The file binder organiser according to the invention may according to the user's needs be done in various makes.

The symmetry axis of longitudinal slot opening 1.2 of the body 1 is parallel or is situated at acute or obtuse angle to the symmetry axis of the backbone part 7 of the cover.

The length L of the upper slot opening 4 corresponds to the length L of the bottom centre slot opening 6 of the pile of sheets 5 and is greater or at most equal to or is lesser or at most equal to the distance L1 of vertical arm axes of the top bipartite stiff ring clip 2.

The length L2 of the upper arm of the bottom slot opening 6 in the pile of sheets 5 is less or at most equal or bigger or at most equal to the distance L1 of the vertical arm axes of the top bipartite stiff ring clip 2.

The upper arm of bottom slot opening 6 in pile of sheets 5 is obliquely extended upwards (looking from the top) at obtuse angle to the sheet edge up to the point of

contact with the said edge and thus, creates an open duct to insert there the bottom flexible ring clip 3 arm or is obliquely extended upwards (looking from the top) at obtuse angle to the sheet edge up to the point of coming into contact with the said edge and thus forms an oblique duct which terminates near the sheet edge, and the sheet edge between the end of the oblique duct and the end of the sheet is cut so that it is possible to insert the bottom flexible ring clip 3 without unfastening it.

The arm of the bottom slot opening 6 in the pile of sheets 5 at its upper or lower top has a cut passing between the opening and the sheet edge so as it is possible to insert the arm of the bottom flexible ring clip 3 without unfastening it.

The distance L1 of the vertical arm axis of the top bipartite stiff ring clip 2 corresponds to the distance of vertical arm axes of the bottom flexible ring clip 3 when "closed".

The file binder organiser has two identical or more than two identical top bipartite stiff ring clips 2 situated in the upper part of the body 1.

The file binder organiser has identical flexible ring clips 3 situated both in the lower and upper parts of the body 1.

The file binder organiser has two identical flexible ring clips 3 situated in the lower, centre and upper parts of the body 1.

The file binder organiser has the bottom-opened stiff body 1 of the ring clip mechanism, fastened on the bottom cover in the close vicinity to the stiff backbone part 7.

The bottom flexible ring clip 3 has a form of a spring or is formed by joining or plaiting of numerous fibres.

The bottom flexible ring clip 3 has a form of a flexible tube or a form of a flexible bar made particularly of synthetic plastics and on the passive side is joined with the stiff body 1.

The active side of bottom flexible ring clip 3 has the flanged cut-out 3.3. working in conjunction with the slot opening of the body 1, which is suitably shaped to its dimensions.

The cross-section of the top bipartite stiff ring clip 2 and the cross-section of the bottom flexible ring clip 3 have a shape of a circle or have an oval shape, with its longer axis situated parallel or perpendicular to the stiff backbone part axis 7.

The cross-section of the bottom flexible ring clip 3 has an oval shape, with its longer axis situated particularly perpendicular to the axis of the stiff backbone part 7.

The elongated, principally flat, boat-shaped, bottom-opened, particularly square-shaped stiff body 1 of the holding mechanism has a bipartite design and each its part is attached in the upper and in the bottom part of the backbone stiff part 7 of the cover respectively,

The cross-section dimensions of top bipartite stiff ring clip 2 correspond to the cross-section dimensions of the bottom flexible ring clip 3, or are different from them.

The bottom flexible ring clip 3 is provided with a latch to link both its parts, located in the mid-length or near the mid-length, particularly in the uppermost point of its arched bend.

The bottom flexible ring clip 3 is replaceable and its different makes have a variable total length.

The top bipartite stiff ring clip 2 and the bottom flexible ring clip 3 are located, each separately, in separate stiff body 1, and each of these bodies is fitted in the individual latch type pocket attachment 8, arranged in pairs on the backbone part 7 and on the bottom part of the cover respectively.

The bottom flexible ring clip 3 is a flexible bar of symmetric design terminated both on the passive side and active side with the spherical thickening 3.2, working withdrawably and accordingly in conjunction with two identical longitudinal slot openings 1.2 of the stiff body 1.

The width of the backbone part 7 is equal to or less than the distance L1 of the axes of arms of the top bipartite stiff ring clip 2, and the same distance of arms of the bottom flexible ring clip 3, which when the file binder is closed are inserted into

longitudinal, identical symmetrical openings 9 made in the top cover and in the bottom cover or made in one of these covers only. Alternatively these openings are situated parallel or perpendicular to the axis of the stiff backbone part of the cover or at suitable angle to the axis of the cover backbone part.

The top cover is provided with fold 10 parallel to the backbone part 7 and passing near the backbone part as well as is provided with latches attached to this part in the number corresponding to the number of top and bottom clips, each of these latches in the “top cover open” position being inserted into the left-hand arm of its corresponding ring clip.

The top cover is provided with fold 10 parallel to the backbone part 7 and passing in its vicinity and has two identical springy holders 11 attached to the said fold 10, inserted into the left arms of the top bipartite stiff ring clip 2 and bottom flexible ring clip 3 respectively in the situation when they are in the “closed” positions.

The left and right arms of the top bipartite stiff ring clip 2 and bottom flexible ring clip 3 respectively in the situation when they are in the “closed” position, are inserted into adequate openings on the narrow side walls of the rectangular stiff body 1.

The top cover is provided with fold 10 parallel to the backbone 7 part and passing in its vicinity, and has a triple or quadruple fold on its outside longer edge 12.1, 12.2, 12.3, 12.4 so as to allow the formation of a casually shaped triangular, trapezoidal or rectangular section support with a height H corresponding approximately to the height of the fold 10, and to allow such formation of the cover in the “file binder closed” position that the last of the triple or quadruple fold overlaps the rear file binder cover with which in such a way it creates a bur-stuck lock.

The top cover is provided with two flexible moving supports 13, immediately shaped, to a height H corresponding approximately to the height of the fold 10 formed parallel to the backbone part 7 and passing in its vicinity.

The bottom slot opening 6 of the pile of sheets 5 is elongated upwards, and the body 1 constitutes part of the cover backbone and is formed in its mass.

The top bipartite stiff ring clip 2 and the bottom flexible ring clip 3 are attached directly to the rear cover of the file binder or to the file binder backbone.

The active arm of the bottom flexible ring clip 3 has a spherical flexible thickening that is resiliently pushed through a round opening in body 1, and the passive arm of the said ring clip is firmly and inseparably fastened to body 1.

The bottom flexible ring clip 3 is separably fastened to the body 1 by thread screwing.

Both the arms of the bottom flexible ring clip 3 are swinging-fastened to the body 1 on swivel pivots or are hinged.

The file binder organiser in some luxury embodiments has the stiff body 1 of the bottom flexible ring clip 3 (in the make where the top bipartite stiff ring clip 2 and the bottom flexible ring clip 3 are arranged, each separately, in separate stiff body 1) consists of two parts so that both the passive side and the active side of the bottom flexible ring clip 3 are located on separate bodies fastened close to each other, parallel to the axis of the backbone part 7 of the cover.

The active arm of the bottom flexible ring clip 3 of the file binder organiser, according to the invention, in some other embodiments has at the end a non-flexible spherical thickening which in the "ring clip closed" position is pushed into a spherical-cup shaped elastic bed located under the circular opening in the body 1, or also the active arm of the bottom flexible clip ring 3 in the "clip ring closed" position is directly pushed with its suitably shaped non-flexible end into an elastic element protruding from the upper flat part of the body 1 or also into such elastic element fastened to the side wall of the body 1 at an angle adequate to the said wall.

According to the invention in some embodiments the file binder organiser is characteristic in it that the slot opening of the body 1 is extended at suitable angle to the side edge of the body 1 up to the point of coming into contact with the said edge and thus forms an open duct to insert in it the arm of the bottom flexible ring clip 3.

The invention may be implemented in embodiments other than those described hereinabove. These embodiments can be joined with each other or can be separated from each other within the patent claims.

PATENT CLAIMS

1. The file finder organiser consisting of a stiff or flexible cover having a hinge-opening top cover and identical or similar bottom cover, integrally joined with each other by means of a centre narrow stiff backbone part, on which from the inside there is firmly attached a holding mechanism for sheets edge-perforated on the longer edge, containing at least two opening ring clips wherein said the holding mechanism made of metal or synthetic plastic consists of an elongated and principally flat, boat-shaped, bottom-opened, particularly square-shaped stiff body (1) in which the top bipartite single stiff ring clip (2) is fitted in the upper part and the bottom single flexible ring clip (3) is fitted in the bottom part, both the ring clips when closed are fastened suitably in the longitudinal slot-shaped upper opening (4) of the pile of sheets (5) and in the longitudinal T-shaped bottom slot opening (6) of pile of sheets (5); the axis of the upper slot opening (4) passes perpendicular to the axis of backbone part (7) of the cover and the axis of the upper arm of the bottom slot opening (6) passes parallel to the axis of backbone part (7) of the cover, whilst the bottom flexible ring clip (3) constitutes a flexible bar with a plate thickening (3.1) at the end on one passive side, fitted in cylindrical opening (1.1) of the stiff body (1) and with spherical thickening (3.2) at the end on the other active side, loosely and withdrawably fitted in longitudinal slot opening (1.2) of the stiff body, terminated with a cylindrical input extension having a diameter greater than that of the spherical thickening (3.2).

2. The file binder organiser according to claim 1 wherein said the symmetry axis of the longitudinal slot opening (1.2) of the body (1) is parallel or is situated at acute or obtuse angles to the symmetry axis of backbone part (7) of the cover.
3. The file binder organiser according to claim 1 wherein said the length (L) of the upper slot opening (4) corresponds to the centre arm length (L) of the bottom slot opening (6) of the pile of sheets (5) and is greater or at most equal to the distance (L1) of the axes of vertical arms of top bipartite stiff ring clip (2).
4. The file binder organiser according to claim 1 wherein said the length (L) of the upper slot opening (4) in the pile of sheets (5) corresponds to the length (L) of the centre arm of the bottom slot opening (6) of the pile of sheets (5) and is less or at most equal to the distance (L1) of the axes of vertical arms of top bipartite stiff ring clip (2).
5. The file binder organiser according to claim 1 wherein said the length (L2) of the upper arm of the bottom slot opening (6) in the pile of sheets (5) is less or at most equal to the distance (L1) of the axes of vertical arms of the top bipartite stiff ring clip (2).
6. The file binder organiser according to claim 1 wherein said the length (L2) of the upper arm of the bottom slot opening (6) in the pile of sheets (5) is greater or at most equal to the distance (L1) of the axes of vertical arms of the top bipartite stiff ring clip (2).
7. The file binder organiser according to claim 1 wherein said the upper arm of the bottom slot opening (6) in the pile of sheets (5) is obliquely extended upwards at obtuse angle to the sheet edge up to the point of contact with the said edge, and thus creates an open duct to insert there the arm of the bottom flexible ring clip (3).
8. The file binder organiser according to claim 1 wherein said the upper arm of the slot opening (6) in the pile of sheets (5) is obliquely extended upwards at obtuse angle to the sheet edge up to the point of coming into contact with the said edge, and thus forms an oblique duct which terminates near the sheet edge, and

the sheet between the end of the oblique duct and the sheet edge is cut so that it is possible to insert the bottom flexible ring clip (3) without unfastening it.

9. The file binder organiser according to claim 1 wherein said the arm of the bottom slot opening (6) in the pile of sheets (5) has, at its upper or lower top, a cut passing between the opening and the sheet edge so as it is possible to insert the arm of the bottom flexible ring clip (3) without unfastening it.
10. The file binder organiser according to claim 1 wherein said the distance (L1) of the axes of vertical arms of the top bipartite stiff ring clip (2) corresponds to the distance of the axes of vertical arms of the bottom flexible ring clip (3) when in the closed position.
11. The file binder organiser according to claim 1 wherein said has two identical top bipartite stiff ring clips (2) located in the upper part of the body (1).
12. The file binder organiser according to claim 1 wherein said has more than two identical top bipartite stiff ring clips (2) located in the upper part of the body (1).
13. The file binder organiser according to claim 1 wherein said has two identical bottom flexible ring clips (3) located in the bottom part of the body (1).
14. The file binder organiser according to claim 1 wherein said has identical flexible ring clips (3) situated both in the bottom part of the body (1) and in the upper part of the body.
15. The file binder organiser according to claim 1 wherein said has more than two identical bottom flexible ring clips (3) located in the bottom part of the body (1).
16. The file binder organiser according to claim 1 wherein said has more than two identical flexible ring clips (3) located in the lower, centre and upper parts of the body (1).
17. The file binder organiser according to claim 1 wherein said the bottom-opened stiff body (1) of the holding mechanism is fastened on the bottom cover in the close vicinity to the stiff backbone part (7).

18. The file binder organiser according to claim 1 wherein said the bottom flexible ring clip (3) has the form of a spring or is formed by joining or plaiting of numerous flexible fibres.
19. The file binder organiser according to claim 1 wherein said has the bottom flexible clip ring (3) in the form of a flexible bar made particularly of synthetic plastics and on the passive side is joined with the stiff body (1).
20. The file binder organiser according to claim 1 wherein said has the bottom flexible clip ring (3) in the form of a flexible tube made particularly of synthetic plastics.
21. The file binder organiser according to claim 1 wherein said the active side of the bottom flexible ring clip (3) has the flanged cut-out (3.3.) working in conjunction with the slot opening (1.2) of the body (1), which is suitably shaped to its dimensions.
22. The file binder organiser according to claim 1 wherein said cross-section of the bottom flexible ring clip (3) is circular.
23. The file binder organiser according to claim 1 wherein said cross-section of the top bipartite stiff ring clip (2) and cross-section of the bottom flexible ring clip (3) are circular.
24. The file binder organiser according to claim 1 wherein said cross-section of the top bipartite stiff ring clip (2) and cross-section of the bottom flexible ring clip (3) are oval, with its longer axis situated parallel or perpendicular to the axis of the stiff backbone part (7).
25. The file binder organiser according to claim 1 wherein said cross-section of the bottom flexible ring clip (3) is oval, with its longer axis situated particularly perpendicular to the axis of the stiff backbone part (7).
26. The file binder organiser according to claim 1 wherein said the elongated, principally flat, boat-shaped, bottom-opened, particularly square-shaped stiff body (1) of the holding mechanism has a bipartite design and each its part (14) is attached in the upper and in the bottom part of the backbone part (7) of the cover respectively.

27. The file binder organiser according to claim 1 wherein said the cross-section dimensions of the top bipartite stiff ring clip (2) correspond to the cross-section dimensions of the bottom flexible ring clip (3), or are different from them.
28. The file binder organiser according to claim 1 wherein said the bottom flexible ring clip (3) is provided with a latch to link both its parts, located in the mid-length or near the mid-length, particularly in the uppermost point of its arched bend.
29. The file binder organiser according to claim 1 wherein said the bottom flexible ring clip (3) is replaceable and its different makes have a variable total length.
30. The file binder organiser according to claim 1 wherein said the top bipartite stiff ring clip (2) and the bottom flexible ring clip (3) are located, each separately, in separate stiff body (1), and each of these bodies is fitted in the individual latch type pocket attachment (8), arranged in pairs on the backbone part (7) and on the bottom part of the cover respectively.
31. The file binder organiser according to claim 1 wherein said the bottom flexible ring clip (3) is a flexible bar of symmetric design terminated both on the passive side and active side with the spherical thickening (3.2), working withdrawably and accordingly in conjunction with two identical longitudinal slot openings (1.2) of the stiff body (1).
32. The file binder organiser according to claim 1 wherein said the width of backbone part (7) is equal to or less than the distance (L1) of the axes of arms of the top bipartite stiff ring clip (2), and the same distance of arms of the bottom flexible ring clip (3), which when the file binder is closed are inserted into longitudinal, identical symmetrical openings (9) made in the upper and in the bottom cover or made in one of these covers only.
33. The file binder organiser according to claim 1 wherein said the top cover is provided with the fold (10) parallel to the backbone part (7) and passing in its vicinity as well as is provided with latches attached to this part in the number corresponding to the number of top and bottom clips, each of these latches in the "top cover open" position being inserted into the left-hand arm of its corresponding ring clip.

34. The file binder organiser according to claim 1 wherein said the top cover is provided with the fold (10) parallel to the backbone part (7) and passing in its vicinity and has two identical springy holders (11) attached to the said fold (10), inserted into the left arms of the top bipartite stiff ring clip (2) and bottom flexible ring clip (3) respectively in the situation when they are in the "closed" positions.
35. The file binder organiser according to claim 1 wherein said the left and right arms of the top bipartite stiff ring clip (2) and bottom flexible ring clip (3) respectively in the situation when they are in the "closed" position, are inserted into adequate openings on the narrow side walls of the rectangular stiff body (1), the openings being arranged parallel or perpendicular to the axis of the stiff backbone part (7) of the cover, or at adequate angle to the axis of the backbone part of the cover.
36. The file binder organiser according to claim 1 wherein said the top cover is provided with the fold (10) parallel to the backbone part (7) and passing in its vicinity, and has a triple or quadruple fold on its outside longer edge (12.1, 12.2, 12.3, 12.4) so as to allow the formation of the immediately shaped triangular, trapezoidal or rectangular section support with a height (H) corresponding approximately to the height of the fold (10), and to allow such formation of the cover in the "file binder closed" position that the last of the triple or quadruple fold overlaps the rear file binder cover with which in such a way it creates a bur-stuck lock.
37. The file binder organiser according to claim 1 wherein said the top cover is provided with two flexible moving supports (13), immediately shaped, to a height (H) corresponding approximately to the height of the fold (10) formed parallel to the backbone part (7) and passing in its vicinity.
38. The file binder organiser according to claim 1 wherein said the bottom slot opening (6) of the pile of sheets (5) is elongated upwards, and the body (1) constitutes a part of the backbone part of the cover and is formed in its mass.
39. The file binder organiser according to claim 1 wherein said the top bipartite stiff ring clip (2) and the bottom flexible ring clip (3) are attached directly to the rear cover of the file binder or to the file binder backbone.

40. The file binder organiser according to claim 1 wherein said the active arm of the bottom flexible ring clip (3) has a spherical flexible thickening that is resiliently pushed through the round opening in the body (1), and the passive arm of the said ring clip is firmly and inseparably fastened to the body (1).
41. The file binder organiser according to claim 1 wherein said the bottom flexible ring clip (3) is separably fastened to the body (1) by thread screwing.
42. The file binder organiser according to claim 1 wherein said both the arms of the bottom flexible ring clip (3) are swinging-fastened to the body (1) on swivel pivots or are hinged.
43. The file binder organiser according to claim 1 wherein said the stiff body (1) of the bottom flexible ring clip (3), in the make where the top bipartite stiff ring clip (2) and the bottom flexible ring clip (3) are arranged, each separately, in separate stiff body (1) consists of two parts so that both the passive side and the active side of the bottom flexible ring clip (3) are located on separate bodies fastened close to each other, parallel to the axis of the backbone part (7) of the cover.
44. The file binder organiser according to claim 1 wherein said the active arm of the bottom flexible ring clip (3) has at the end a non-flexible spherical thickening which in the "ring clip closed" position is pushed into a spherical-cup shaped elastic bed located under the circular opening in the body (1).
45. The file binder organiser according to claim 1 wherein said the active arm of the bottom flexible clip ring (3) in the "clip ring closed" position is directly pushed with its suitably shaped non-flexible end into the elastic element protruding from the upper flat part of the body (1) or also into such elastic element fastened to the side wall of the body (1) at an angle adequate to the said side wall.
46. The file binder organiser according to claim 1 wherein said the slot opening of the body (1) is extended at suitable angle to the side edge of the body (1) up to the point of coming into contact with the said edge and thus forms an open duct to insert in it the arm of the bottom flexible ring clip (3).

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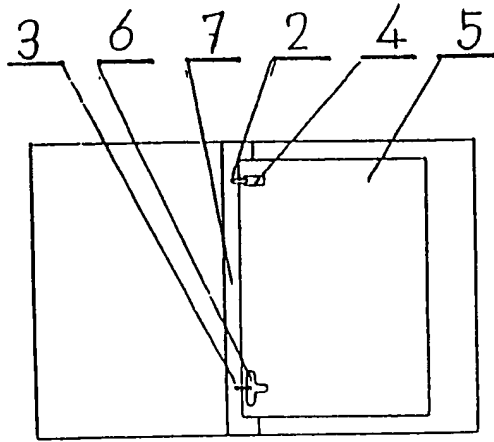


Fig. 1

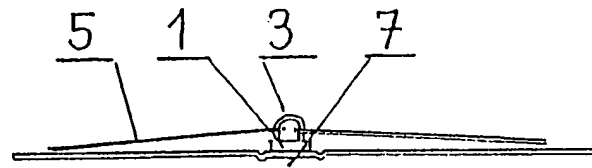


Fig. 2

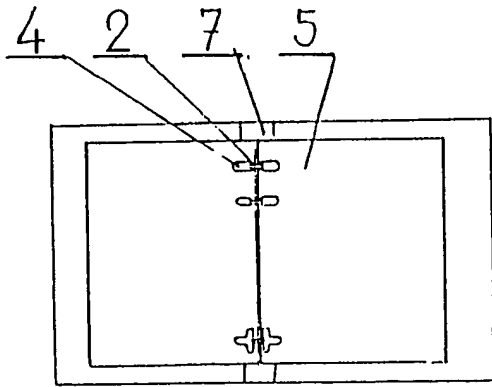


Fig. 3

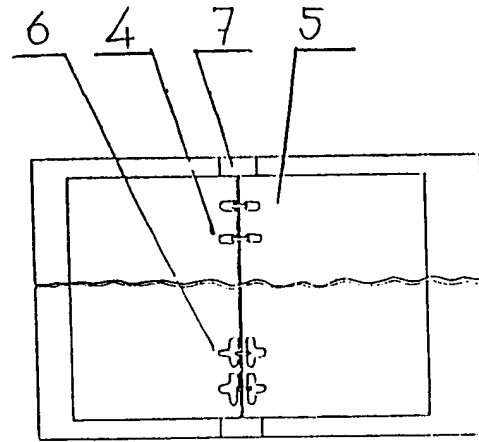


Fig. 4

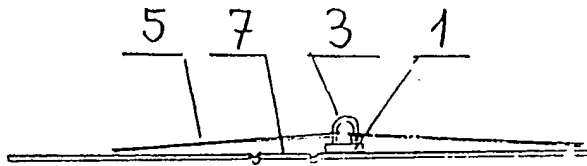


Fig. 5

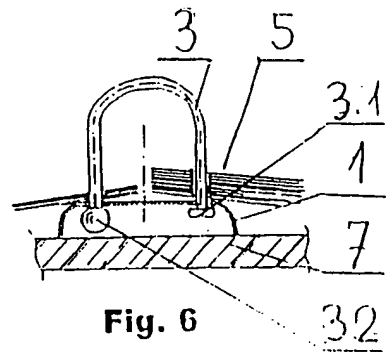


Fig. 6

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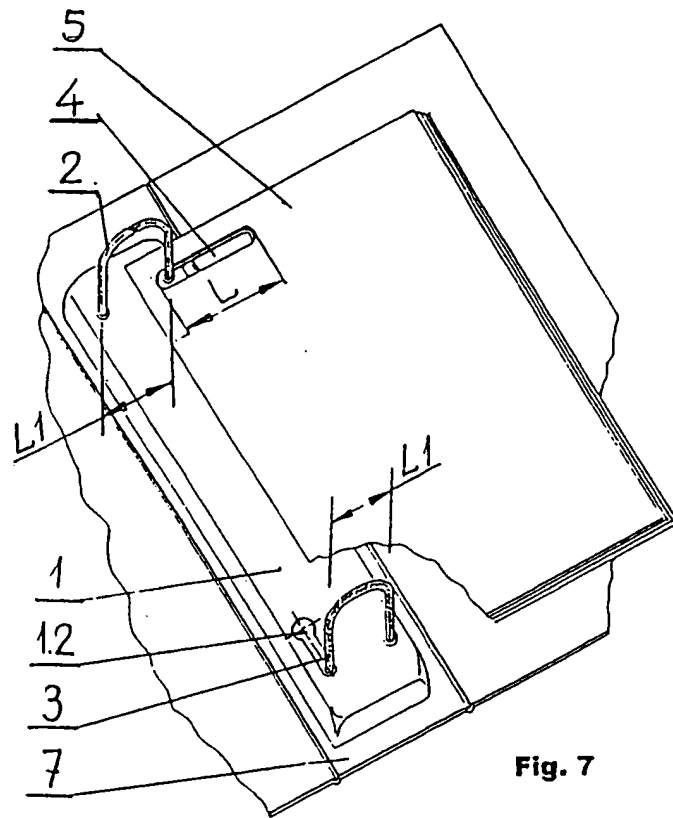


Fig. 7

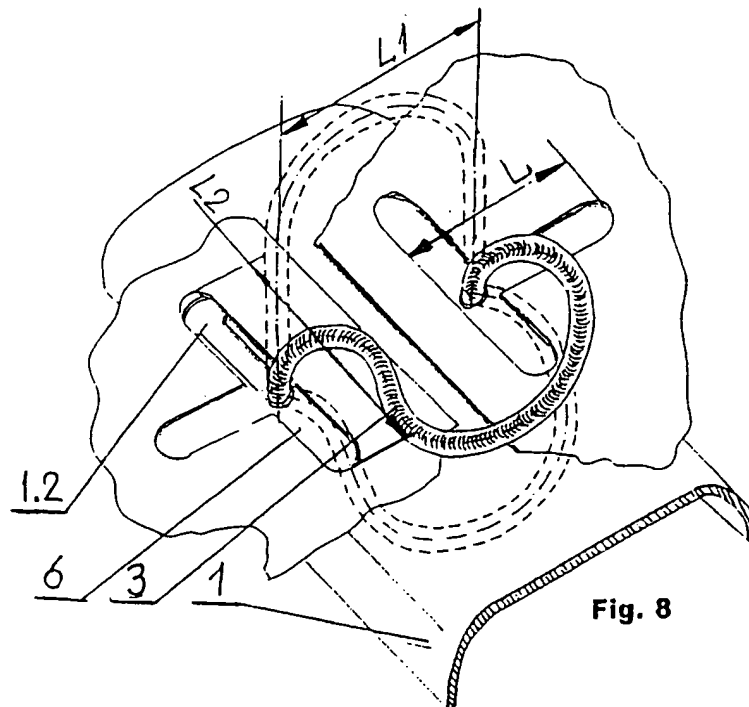


Fig. 8

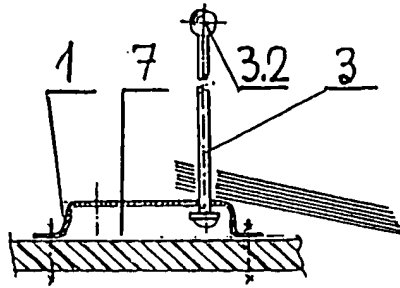


Fig. 9

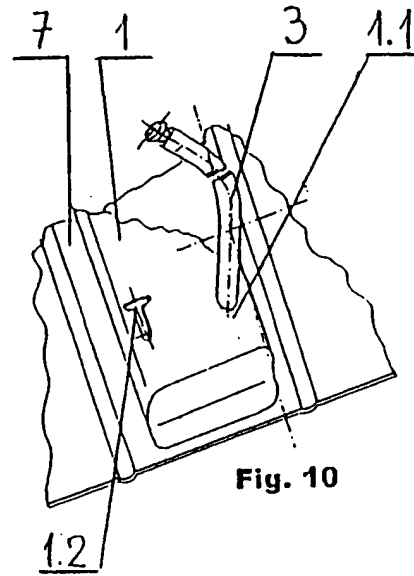


Fig. 10

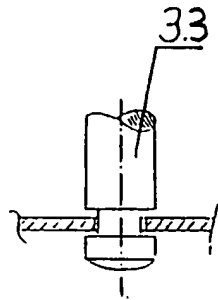


Fig. 11

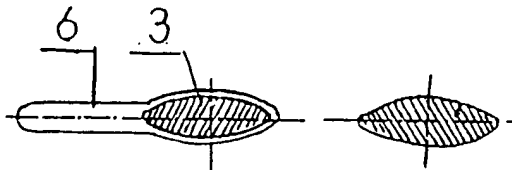


Fig. 12



Fig. 13

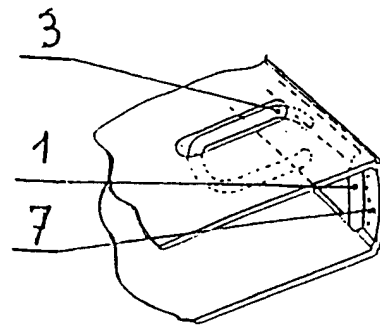


Fig. 14

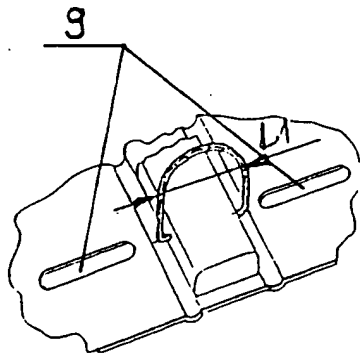


Fig. 15

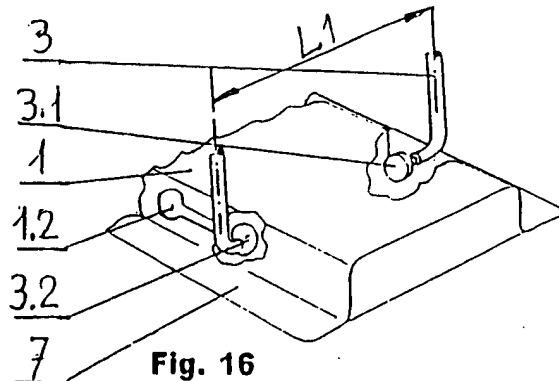


Fig. 16

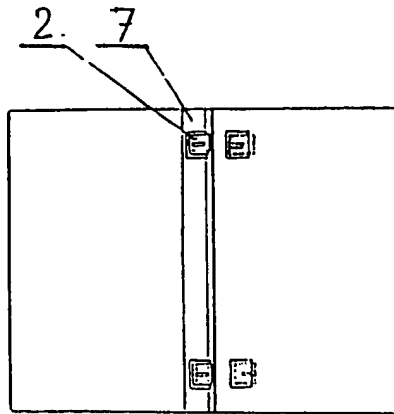


Fig. 17

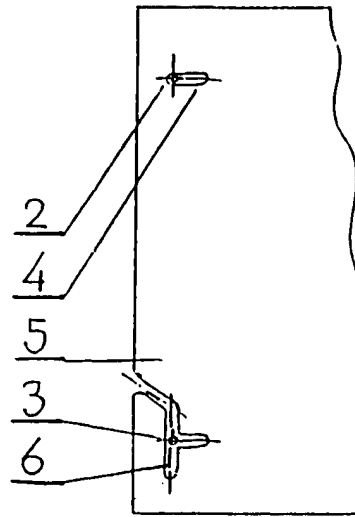


Fig. 18

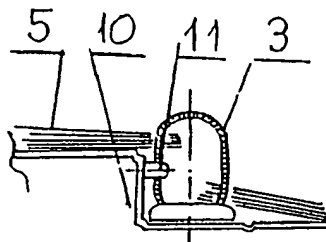


Fig. 19

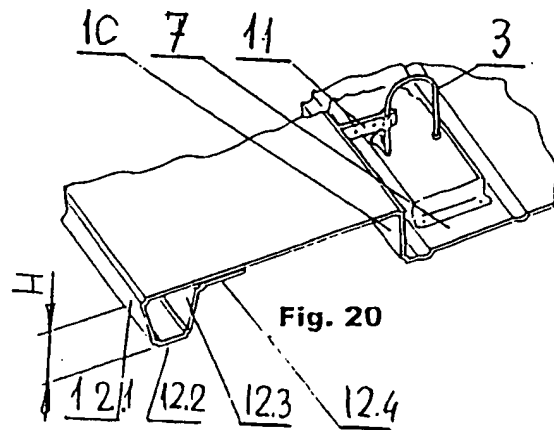


Fig. 20

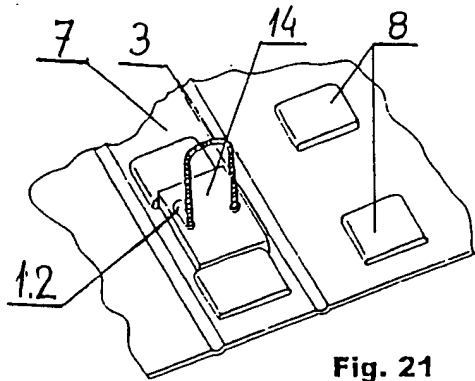


Fig. 21

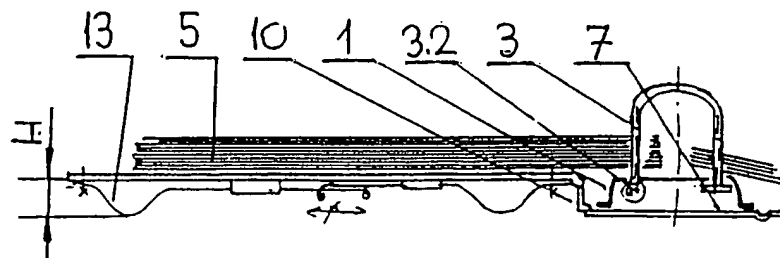


Fig. 22

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 B42F3/00 B42F13/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B42F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

WPI Data, EPO-Internal, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	FR 1 257 100 A (TISON) 12 July 1961 (1961-07-12) the whole document ---	1
A	GB 698 331 A (WILSON) 14 October 1953 (1953-10-14) page 1, line 59 - line 74; figures 1-3 ---	1
A	DE 90 13 977 U (ZEIT & PLAN MANAGEMENT) 13 December 1990 (1990-12-13) page 3, line 27 - page 4, line 9; figures 1,2 ---	1
A	GB 975 183 A (BECKER) 11 November 1964 (1964-11-11) page 2, line 70 - line 77; figure 12 -----	1

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

16 May 2001

Date of mailing of the international search report

23/05/2001

Name and mailing address of the ISA

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Evans, A

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